

Michigan Homeland Security GIS Advisory Committee – GIS Readiness Assessment – 2004

The Michigan Homeland Security Advisory Council has established a sub-committee, the Michigan Homeland Security GIS Advisory Committee, to formulate recommendations on the development and use of geospatial technology and information statewide in support of the state and local homeland security program. The sub-committee is composed of individuals representing the diversity of the state (see attached list of committee members).

As stated in the March 25, 2004 letter from John Ort, State Police Deputy Director of Homeland Security, to all committee members, a major emphasis of the committee will be to develop an overall strategy for coordination between state and local jurisdictions regarding geospatial issues. The results of this assessment will assist in the following key initiatives of the sub-committee:

- Identify the requirements to synchronize the efforts of local GIS agencies with local Emergency Operations Centers.
- Develop a network of GIS professionals to be called on in the event of an emergency.
- Develop standards and priorities to establish a core set of spatial data consistent across the state.
- Establish criteria to create consistent GIS availability statewide.
- Identify state/local interaction requirements regarding geospatial data and technology.
- Identify funding opportunities and needs

You have been identified as a key stakeholder in the GIS technology field or in emergency operations. Your participation is very important and will be beneficial in establishing the recommendations that are sent to the Homeland Security Advisory Council.

Originally developed by the National League of Cities, the National Association of Counties, the International City/County Management Association and Public Technology, Inc., this assessment survey has been further augmented by the Michigan Homeland Security GIS Advisory Committee as part of the state's homeland security program.

Section I - Contact Information for the person completing the survey.

Please make all necessary corrections or additions to the information provided.

Current Address Information:

«Agency»
Attn: «FName» «LName»
«Title», «Department»
«Street»
«City», «State» «ZipCode»

Corrected Address Information:

Additional Information (please complete this section):

Preferred suffix: None Sr. Jr. III Esq. PhD. Other (please describe: _____)

Title: _____

Organization name: _____

Department or unit: _____

Telephone number: (____) ____-____ ext. _____ FAX number (____) ____-____

E-mail: _____@_____

Organization Web Page URL: _____

Other Contact Information:

Name of Planning Director (or equivalent): _____

Telephone number: (____) ____-____ ext. _____ E-mail: _____@_____

Name of 911 Director (or equivalent): _____

Telephone number: (____) ____-____ ext. _____ E-mail: _____@_____

Name of Public Works Director (or equivalent): _____

Telephone number: (____) ____-____ ext. _____ E-mail: _____@_____

Name of County Engineer (or equivalent): _____

Telephone number: (____) ____-____ ext. _____ E-mail: _____@_____

Name of County Equalization Director (or equivalent): _____

Telephone number: (____) ____-____ ext. _____ E-mail: _____@_____

Name of Emergency Management Director (or equivalent): _____

Telephone number: (____) ____-____ ext. _____ E-mail: _____@_____

Section II - Geographic Information Computer Systems (GIS) Utilization

1. Does your jurisdiction currently use GIS? ☐ Yes ☐ No
2. If “yes,” does your organization use one or more of the seven FGDC defined data layers (aerial imagery/orthoimagery, transportation, cadastral records and maps, elevation and contour information, **government** boundaries, hydrography, geodetic control)?
 ☐ Yes ☐ No

*If you answered “no,” continue to page 4.**If you answered “yes,” go to page 5.*

3 If you answered “no,” please check all of the following statements that describe your organization. (*Check all applicable.*)

- ☐ 1. We once used GIS systems but found it was not useful or cost effective.
- ☐ 2. We once used GIS systems, found them useful, but did not have sufficient funding to continue operations.
- ☐ 3. We are interested in GIS systems, but we do not have the funding to implement
- ☐ 4. We are interested in GIS systems, but we do not have the technical expertise to implement
- ☐ 5. We are not interested in GIS systems at this time.

Comments: _____

4. Please check the type of categories utilized by your jurisdiction in the form of paper maps, aerial photographs, paper records, etc. (*Check all applicable.*)

- ☐ 1. Aerial imagery
- ☐ 2. Street networks (centerlines or edge of pavement)
- ☐ 3. Cadastral records and maps
- ☐ 4. Elevation and contour information
- ☐ 5. Land use
- ☐ 6. Flood Insurance Rate Maps
- ☐ 7. Lakes and Rivers
- ☐ 8. Geodetic control
- ☐ 9. Other (please describe: _____)
- ☐ 10. Other (please describe: _____)
- ☐ 11. Other (please describe: _____)

Comments: _____

Thank you for completing this important assessment for Michigan

Please mail this page and the preceding pages to:

Michelle Beckwith
Michigan Center for Geographic Information
c/o Michigan Homeland Security GIS Advisory Committee
111 S Capitol Ave, G.W. Romney Bldg., 10th Floor
Lansing, MI 48913

The remainder of this survey is to be completed only by those respondents that indicated they use GIS.

GIS Staffing

5. How many full-time equivalent's (FTE's) are in your organization dedicated to GIS operations? _____

Emergency Management

6. How many GIS FTE's are currently at the disposal of emergency managers (including those through both formal and informal agreements)? _____

7. What type of **geospatial** assistance would be most beneficial to your emergency management organization? (*Check all applicable.*)

- ☐ Access to data
- ☐ GIS training for responder representatives
- ☐ Subsidy for hiring or contracting GIS support
- ☐ Facilitating volunteer GIS support in time of need
- ☐ GIS Software / Hardware
- ☐ Other (Please describe: _____)
- ☐ Other (Please describe: _____)
- ☐ Other (Please describe: _____)

Section III - GIS Functions, Applications, Systems, and Software

1. GIS functions are: (*Check only one.*)

- ☐ Centrally maintained ☐ Maintained by multiple agencies ☐ Maintained centrally and by multiple agencies

2. Which agencies perform GIS functions? (*Check all applicable.*)

- ☐ Planning
- ☐ Public works
- ☐ Drain Commission
- ☐ Public Utilities
- ☐ Environmental
- ☐ Health
- ☐ Fire Dept
- ☐ Police Dept.
- ☐ Information technology
- ☐ Human services
- ☐ Emergency management
- ☐ Transportation
- ☐ Education (K-12)

(List continued on next page)

- ☐ Register of Deeds
- ☐ Assessment / Equalization
- ☐ Other (Please identify) _____
- ☐ Other (Please identify) _____
- ☐ Other (Please identify) _____

3. Which of the following applications using GIS data and technologies have been implemented by your jurisdiction? (*Check all applicable.*)

- ☐ Crime tracking (e.g., Comstat)
- ☐ Disease control
- ☐ Environmental
- ☐ Property record management and taxation
- ☐ Emergency preparedness and response
- ☐ Hazardous Materials Management
- ☐ Vehicle and field force routing
- ☐ Computer Aided Dispatch (CAD)
- ☐ E911
- ☐ Permitting
- ☐ Inspections
- ☐ Capital planning, design, and construction
- ☐ Infrastructure and facilities management
- ☐ Remote sensing from satellite imagery
- ☐ Weather forecasting
- ☐ Aerial photography
- ☐ Softcopy photogrammetry
- ☐ GPS
- ☐ Hydrologic & Hydraulic Modeling and Analysis
- ☐ Other (Please describe: _____)
- ☐ Other (Please describe: _____)
- ☐ Other (Please describe: _____)

4. Does your jurisdiction currently provide Internet Mapping access to its data? ☐ Yes ☐ No

If "no," is your organization planning to provide such access? ☐ Yes ☐ No

5. If your organization is planning to provide such access, is the time frame?

- ☐ Less than 1 year
- ☐ More than 1 year.

6. Will the access be Internal?

- ☐ Yes
- ☐ No

7. Will the access be External?
☐ Yes ☐ No
8. If federal funding were available for homeland security needs in general, would your jurisdiction utilize a portion of this funding loans to improve its GIS system?
☐ Yes ☐ No
9. If "yes," how important would GIS improvements be?
☐ Major priority ☐ Minor priority
10. If "yes," please indicate how your jurisdiction would improve its GIS system. (*Check all applicable.*)
☐ Increase accuracy
☐ Implement applications
☐ Design a system architecture for enterprise GIS
☐ Build additional layers
☐ Improve maintenance (data updates)
☐ Create interjurisdictional GIS coverages or regional coverages
☐ Hire staff
☐ Hire consultants
☐ Train staff
☐ Acquire hardware, software, or telecommunication systems
☐ Other (Please describe: _____)
☐ Other (Please describe: _____)
11. Is your jurisdiction collaborating with other adjoining jurisdictions on building GIS data and/or applications?
☐ Yes ☐ No
12. If "yes," please identify the type of collaboration: (*Please check all applicable boxes below.*)

Effort With Whom \ Type of	<i>Policy/Procedural</i>	<i>Data</i>	<i>Applications</i>	<i>Standards</i>	<i>Hardware</i>	<i>Financial</i>	<i>Other</i> _____
<i>Federal</i>							
<i>State</i>							
<i>Regional</i>							
<i>County</i>							
<i>Local</i>							
<i>Other</i> _____							
<i>Other</i> _____							

13. Please identify which of the following your organization uses. (*Check all applicable.*)

GIS Operating Systems: __UNIX __Linux __Windows __NTWindows __XPWindows (Yr.) _____

GIS Software:

- ☐ Bentley
- ☐ ESRI
- ☐ AutoDesk
- ☐ Caliper
- ☐ GenaMap
- ☐ ERDAS
- ☐ Intergraph
- ☐ MapInfo
- ☐ MapObjects
- ☐ Smallworld
- ☐ IDRISI
- ☐ C-Map
- ☐ Map Image Viewer
- ☐ MS Map Point
- ☐ Other (Please identify) _____
- ☐ Other (Please identify) _____
- ☐ Other (Please identify) _____
- ☐ Other (Please identify) _____

Computer Aided Drafting Software:

- ☐ AutoCAD
- ☐ TurboCAD
- ☐ ArcCAD
- ☐ Microstation
- ☐ Other (list) _____
- ☐ Other (list) _____
- ☐ Other (list) _____
- ☐ Other (list) _____

Database Management Software:

- ☐ RDBMS Software:
- ☐ Oracle
- ☐ DB2
- ☐ Informix

(List continued on next page)

- ☐ SQL
- ☐ Server
- ☐ MS
- ☐ Access
- ☐ dBase
- ☐ Other (list) _____
- ☐ Other (list) _____

14. Does your organization collect data with a GPS receiver? ☐ Yes ☐ No
15. How many GPS receivers are available for your organizations use? _____ Do you use these regularly? ☐ Yes ☐ No
16. If yes, what grade receiver is in use? ☐ Survey (< centimeter) ☐ Mapping (< 1 meter) ☐ Recreational (> 1 meter)
17. What map coordinate system does your organization use? (*Check all applicable.*)
- ☐ Localized
 - ☐ UTM
 - ☐ Geographic (Latitude/Longitude)
 - ☐ State plane
 - ☐ Michigan Georef (Oblique Mercator)
 - ☐ Other (list) _____
 - ☐ Other (list) _____
 - ☐ Other (list) _____
18. Has your organization developed or is it developing metadata for the data layers? ☐ Yes ☐ No

Section IV - Data Distribution

1. Does your organization maintain a consolidated list of available data? ☐ Yes ☐ No
2. If yes, how is the list available?
- ☐ Hardcopy ☐ Internet ☐ Intranet ☐ NSDI ☐ Clearinghouse ☐ Other(list) _____
3. If the list is available on the Internet, what is the website URL for the list of available data? _____
4. Does your organization distribute data? ☐ Yes ☐ No

If no, please skip to section 5 on page 11.

5. Does your organization typically copyright its data?

☐ Yes ☐ No

6. Does your organization typically license its data?

☐ Yes ☐ No

7. Would it be helpful to have your organization's data housed on a central server hosted by another entity?

☐ Yes ☐ No

8. Do you have a local policy that governs your data distribution?

☐ Yes ☐ No

If yes, please explain _____

9. If your organization charges for GIS data and maps, then is the revenue critical to funding the GIS maintenance and development work?

☐ Yes ☐ No

10. Does your organization restrict redistribution of its data?

☐ Yes ☐ No

Section V-a - General Information about Data

Please complete the attached table on the following pages to provide information on the development of data within your jurisdiction. You need only indicate with a yes, no or “?”, whether a listed digital GIS layer exists for your jurisdiction, whether it is available to your jurisdiction Emergency Operations Center and whether you believe that it is (or will) be critical to the EOC in the event of an incident. The data layers listed are those identified by a cross-section of GIS data users in the state as potentially important for use during a homeland security incident. You will also have an opportunity to identify any other layers not listed that you believe are critical to your jurisdiction in the event of a homeland security emergency.

See Attached Table

Assessment Completed by:

Print Name: _____

Title: _____

Signature: _____

Date: _____

Please mail this page and the preceding pages to:

Michelle Beckwith
Michigan Center for Geographic Information
c/o Michigan Homeland Security GIS Advisory Committee
111 S Capitol Ave, G.W. Romney Bldg., 10th Floor
Lansing, MI 48913

Thank you for completing this important assessment for Michigan
